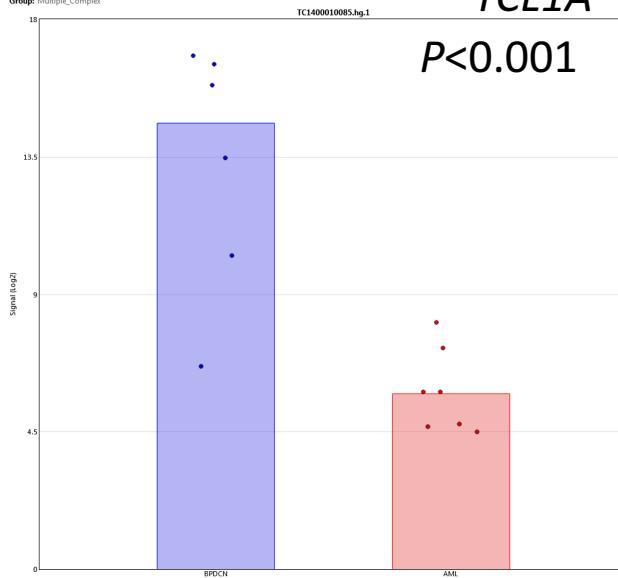
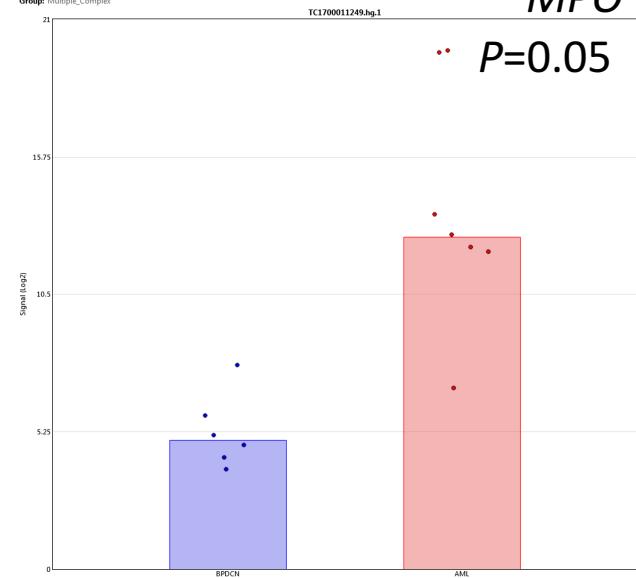


a

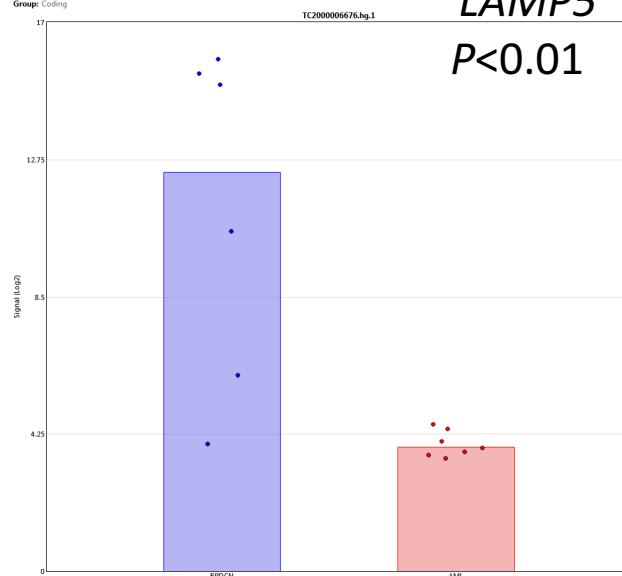
Gene Symbol: **TCL1A**
 Description: T-cell-leukemia/lymphoma 1A
 Group: Multiple_Complex

**b**

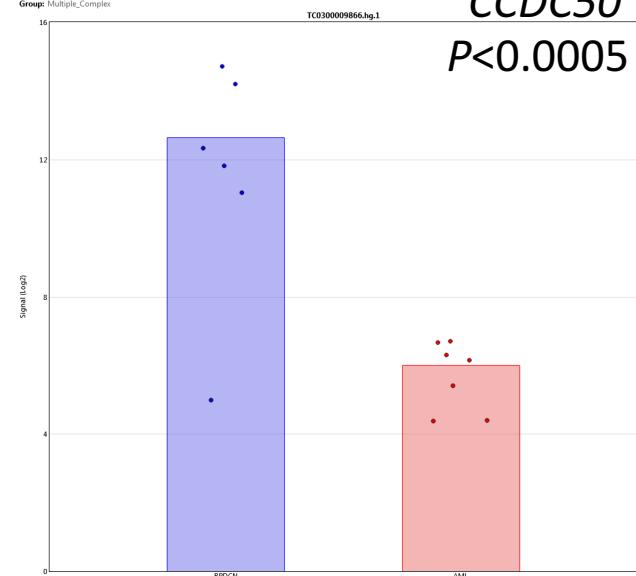
Gene Symbol: **MPO**
 Description: myeloperoxidase
 Group: Multiple_Complex

**c**

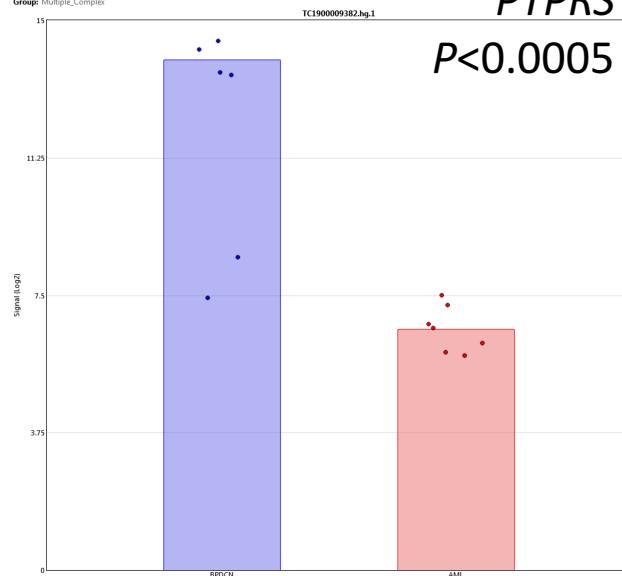
Gene Symbol: **LAMP5**
 Description: lysosomal-associated membrane protein family, member 5
 Group: Coding_Region

**d**

Gene Symbol: **CCDC50**
 Description: coiled-coil domain containing 50
 Group: Multiple_Complex

**e**

Gene Symbol: **PTPRS**
 Description: protein tyrosine phosphatase, receptor type, S
 Group: Multiple_Complex

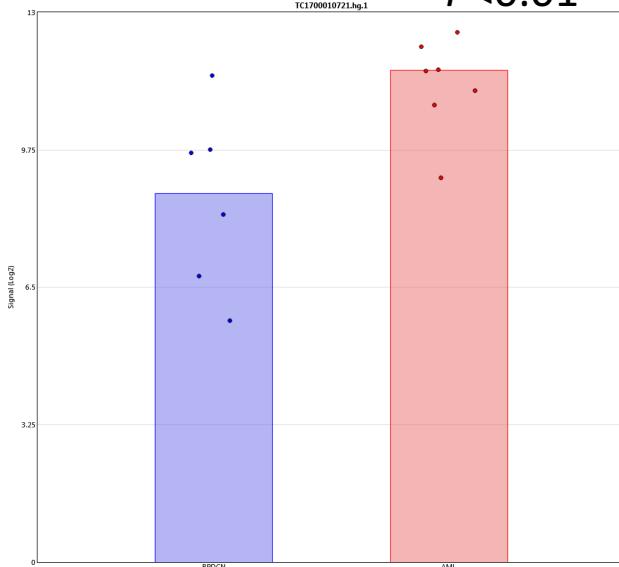


Supplemental Figure 1. Differentially expressed genes between BPDCN and AML. (a-b) Known markers *TCL1A* and *MPO*. (c-d) Dendritic cell markers *LAMP5* and *CCDC50* (e) *PTPRS*

a

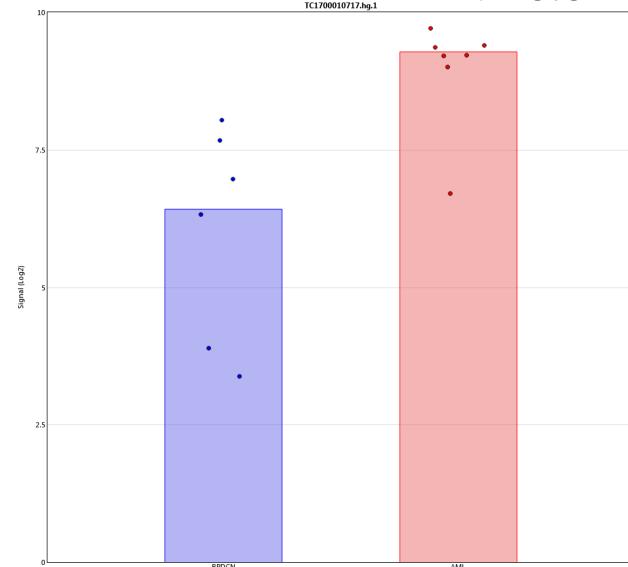
Gene Symbol: STAT3
Description: signal transducer and activator of transcription 3 (acute-phase response factor)
Group: Multiple_Complex

STAT3 *P<0.01*

**b**

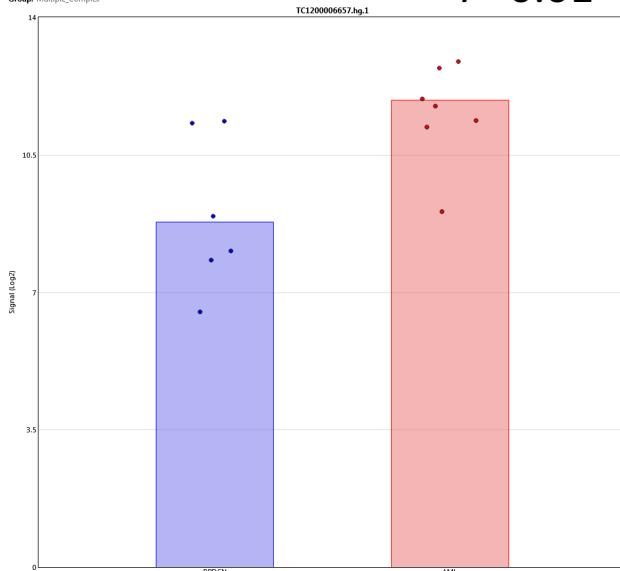
Gene Symbol: STAT5B
Description: signal transducer and activator of transcription 5B
Group: Multiple_Complex

STAT5B *P<0.01*

**c**

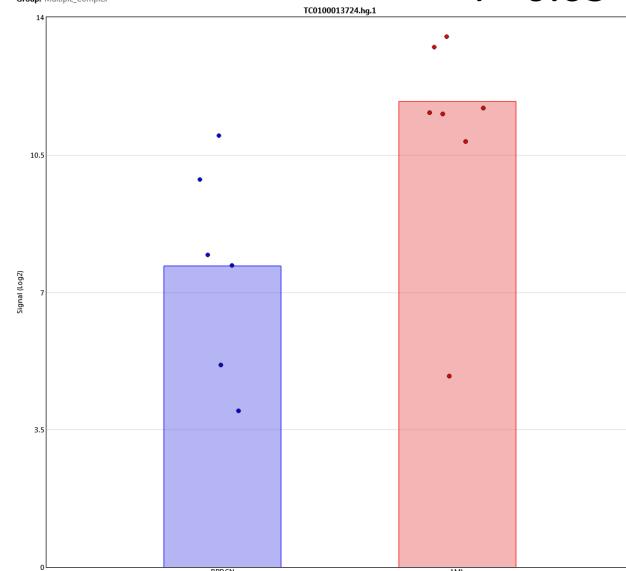
Gene Symbol: PTPN6
Description: protein tyrosine phosphatase, non-receptor type 6
Group: Multiple_Complex

PTPN6 *P<0.01*

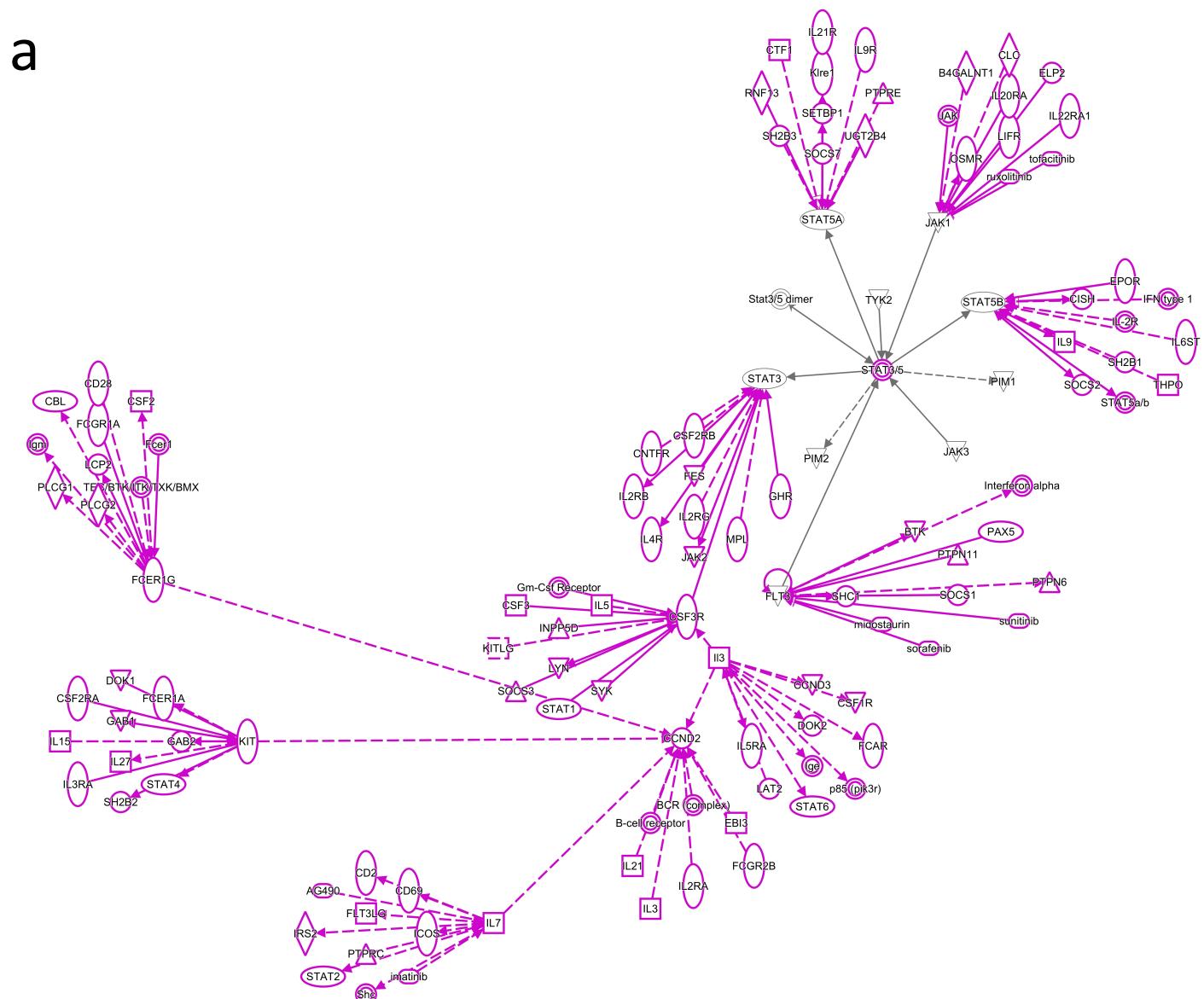
**d**

Gene Symbol: CSF3R
Description: colony-stimulating factor 3 receptor
Group: Multiple_Complex

CSF3R *P<0.05*



Supplemental Figure 2. Differentially expressed genes related to IL3 signaling expression (a) *STAT3* (b) *STAT5B* (c) *PTPN6* (d) *CSF3R*

a

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b

Consider only molecules and/or relationships where

(cell lines = K-562 OR NB4 OR HMC-1 OR J774 OR J-774A.1 OR SR OR THP-1 OR Lymphoma Cell Lines not otherwise specified OR Jurkat OR HL-60 OR Other Immune cell lines OR U266 OR Other Macrophage Cancer Cell Lines OR RBL-2H3 OR RPMI-8266 OR U937 OR Macrophage Cancer Cell Lines not otherwise specified OR Other Lymphoma Cell Lines OR Other Leukemia Cell Lines OR Leukemia Cell Lines not otherwise specified OR MOLT-4 OR HEL OR Myeloma Cell Lines not otherwise specified OR CCRF-CEM OR Other Myeloma Cell Lines OR BA/F3 OR WEHI-231 OR Immune cell lines not otherwise specified OR RAW 264.7) AND

(diseases = Cancer OR Inflammatory Disease OR Hematological Disease OR Immunological Disease OR Tumor Morphology)

Supplemental Figure 3. Ingenuity Pathway Analysis (IPA) of STAT3 signaling. The networks (a) were generated through the use of IPA (QIAGEN Inc.,

<https://www.qiagenbioinformatics.com/products/ingenuity-pathway-analysis>) using the filters shown (b)